

CLAIMS:

1. A fuel cell equipped vehicle (10) comprising:
a fuel cell (30) that generates electric power through a reaction
5 between a fuel gas and an oxidizing gas;
a fuel gas tank (18) that stores the fuel gas to be supplied to the fuel
cell (30);
a fuel cell accessory (31) that operates when the fuel cell (30)
generates electric power;
10 a storage battery (40) that stores electric energy; and
an electric power control unit (50) that controls supply of electric
power regarding the fuel cell (30) and the storage battery (40),
wherein the fuel cell (30), the fuel gas tank (18), the fuel cell
accessory (31), the storage battery (40), and the electric power control unit (50) are
15 disposed below a floor of a passenger compartment (R1) of the vehicle (10).
2. The fuel cell equipped vehicle according to claim 1, wherein the fuel
gas tank (18), the fuel cell (30), the storage battery (40), and the electric power control
unit (50) are arranged in that written order in a longitudinal direction relative to the
20 vehicle.
3. The fuel cell equipped vehicle according to claim 1, wherein the fuel
gas tank (18), the fuel cell (30), the electric power control unit (50), and the storage
battery (40) are arranged in that written order in a longitudinal direction relative to the
25 vehicle.
4. The fuel cell equipped vehicle according to any one of claims 1 to 3,
wherein the fuel cell accessory (31) is disposed at one or both of a right side and a left
side of the fuel cell (30).

5. The fuel cell equipped vehicle according to any one of claims 1 to 4, wherein an upper surface of the fuel cell (30), an upper surface of the fuel gas tank (18), an upper surface of the fuel cell accessory (31), an upper surface of the storage battery (40), and an upper surface of the electric power control unit (50) are at substantially equal heights.

6. The fuel cell equipped vehicle according to any one of claim 1 to 5, wherein the fuel cell (30), the fuel gas tank (18), the fuel cell accessory (31), the storage battery (40), and the electric power control unit (50) are mounted on an upper portion of a generally flat portion of a body frame (20) of the vehicle which extends between a front wheel and a rear wheel.

7. The fuel cell equipped vehicle according to any one of claims 1 to 5, wherein the fuel cell (30), the fuel gas tank (18), the fuel cell accessory (31), the storage battery (40), and the electric power control unit (50) are disposed in a space formed between a right-side frame (22) of a body frame (20) of the vehicle which extends in a longitudinal direction relative to the vehicle in a right-side portion of the vehicle and a left-side frame (21) of the body frame (20) which extends in the longitudinal direction relative to the vehicle in a left-side portion of the vehicle.

8. The fuel cell equipped vehicle according to any one of claims 1 to 7, further comprising a radiator (39) that radiates heat from a cooling water for cooling the fuel cell (30), and that is disposed on a portion of a body frame (20) of the vehicle which extends between a central portion of the body frame and a forward portion of the body frame (20).

9. The fuel cell equipped vehicle according to claim 8, wherein the radiator (39) is disposed so as to lie between two frame rails (21, 22) of the body frame (20).

10. The fuel cell equipped vehicle according to any one of claims 1 to 9, further comprising at least one of a front wheel-driving electric motor (14) and a rear wheel-driving electric motor (16),

5 wherein the electric power control unit (50) controls supply of electric power from the fuel cell (30) and the storage battery (40) to the at least one of the front wheel-driving electric motor (14) and the rear wheel-driving electric motor (16).

10 11. The fuel cell equipped vehicle according to any one of claims 1 to 10, further comprising:

a gas pipe (19) that supplies the fuel gas from the fuel gas tank (18) to the fuel cell (30); and

15 an electrical wire (57, 58) that conducts electric power from the fuel cell (30) and the storage battery (40) to the electric power control unit (50),

wherein the gas pipe (19) is provided in one of a right-side portion and a left-side portion of the vehicle, and the electrical wire (57, 58) is provided in another one of the right-side portion and the left-side portion of the vehicle.

20 12. The fuel cell equipped vehicle according to claim 11, further comprising a coolant circulator device that circulates a coolant for cooling the fuel cell (30),

25 wherein a coolant circulation path (38) of the coolant circulator device and the gas pipe (19) are provided in one of the right-side portion and the left-side portion of the vehicle, and the electrical wire (57, 58) is provided in another one of the right-side portion and the left-side portion of the vehicle.